Dkt: 888.013US1

Title: BRANCH PREDICTION APPARATUS, SYSTEMS, AND METHODS UTILIZING KERNEL AND USER CONTEXTS

IN THE CLAIMS

Please amend the claims as follows:

1.-41. (Canceled)

42. (New) An agree branch prediction apparatus, comprising:

at least a first branch history shift register to store correlated branch history information associated with an execution of a plurality of user instructions; and

at least a second branch history shift register to store correlated branch history information associated with an execution of a plurality of operating system instructions, wherein the first branch history shift register and the second branch history shift register are separated.

- 43. (New) The agree branch prediction apparatus of claim 42, further comprising:
- a Gshare branch predictor comprising the first branch history shift register and the second branch history shift register.
- 44. (New) An agree branch prediction apparatus, comprising:
- a Gshare branch predictor comprising a first branch history shift register to store correlated branch history information associated with a first operating context selected from a preselected plurality of operating contexts; and
- a second branch history shift register included in the Gshare branch predictor, wherein the second branch history shift register is to store correlated branch history information associated with a second operating context selected from the preselected plurality of operating contexts.

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45. (New) A multi-hybrid branch prediction apparatus, comprising:

at least a first branch history shift register to store correlated branch history information associated with an execution of a plurality of user instructions; and

at least a second branch history shift register to store correlated branch history information associated with an execution of a plurality of operating system instructions, wherein the first branch history shift register and the second branch history shift register are separated.

46. (New) The multi-hybrid branch prediction apparatus of claim 45, further comprising:

a Gshare branch predictor comprising the first branch history shift register and the second branch history shift register.

47. (New) A multi-hybrid branch prediction apparatus, comprising:

a Gshare branch predictor comprising a first branch history shift register to store correlated branch history information associated with a first operating context selected from a preselected plurality of operating contexts; and

a second branch history shift register included in the Gshare branch predictor, wherein the second branch history shift register is to store correlated branch history information associated with a second operating context selected from the preselected plurality of operating contexts.

48. (New) A bi-mode branch prediction apparatus, comprising:

at least a first branch history shift register to store correlated branch history information associated with an execution of a plurality of user instructions; and

at least a second branch history shift register to store correlated branch history information associated with an execution of a plurality of operating system instructions, wherein the first branch history shift register and the second branch history shift register are separated.

49. (New) The bi-mode branch prediction apparatus of claim 48, further comprising:

a Gshare branch predictor comprising the first branch history shift register and the second branch history shift register.

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50. (New) A bi-mode branch prediction apparatus, comprising:

a Gshare branch predictor comprising a first branch history shift register to store correlated branch history information associated with a first operating context selected from a preselected plurality of operating contexts; and

a second branch history shift register included in the Gshare branch predictor, wherein the second branch history shift register is to store correlated branch history information associated with a second operating context selected from the preselected plurality of operating contexts.